

Sheet 1 of 4

FORM PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

608.0006USU

Application Number

09/758,006

Applicant

Anselm Deninger et al.

Filing Date

January 10, 2001

Group Art Unit

Not Yet Assigned

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Car	5,545,396	8/13/96	Albert et al.	424	93	
Car	5,557,199	9/17/96	Bowman et al.	324	301	
Car	5,612,103	3/18/97	Driehuys et al.	428	34.7	
Car	5,617,860	4/8/97	Chupp et al.	128	653.4	
Car	5,642,625	7/1/97	Cates, Jr. et al.	62	55.5	
Car	5,789,921	8/4/98	Albert et al.	324	300	
Car	5,785,953	7/28/98	Albert et al.	424	93	
Car	5,809,801	9/22/98	Cates, Jr. et al.	62	637	
Car	5,860,295	1/19/99	Cates, Jr. et al.	62	637	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
Car	19927773.7	8/29/68	Germany				No
Car	WO95/27438	10/19/95	PCT			Yes	
Car	WO97/37239	10/9/97	PCT			Yes	
Car	WO96/40585	12/19/96	PCT			Yes	
Car	WO96/39912	12/19/96	PCT			Yes	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Car	"Determination of the Neutron Electric Form Factor from the Reaction $^3\text{He} (e, \epsilon n)$ at Medium Momentum Transfer" The European Physical Journal A 6, pp.329-344, 1999.
Car	"Measurement of the Neutron Electric Form Factor G_{en} at 0.67 (GeV/c) 2 via $^3\text{He} (e, e n)$ ", Physical Review Letters, Volume 83, Number 21, pps. 4257-4260, November 22, 1999.
Car	" ^3He Neutron Spin-Filter", W. Heil et al., Physica B, pp. 328-335, 1999.

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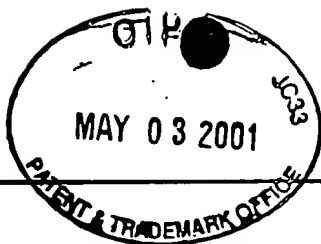
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DATE CONSIDERED

11/12/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through

Citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 2 of 4

FORM PTO-1449		Docket Number (Optional) 608.0006USU		Application Number 09/758,006		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant Anselm Deninger et al.				
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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)						
CaR	"Nuclear Magnetic Resonance Imaging of Airways in Humans with Use of Hyperpolarized ³ He", Bachert et al., Magnetic Resonance in Medicine, pp. 192-196, 1996.					
CaR	"Nuclear Magnetic Resonance Imaging with Hyperpolarised Helium-3", Ebert et al., The Lancet, Vol. 347, No. 9011, pp. 1297-1299, May 11, 1996.					
CaR	"MRI using Hyperpolarized Noble Gases", Kauczor et al, European Radiology 8, pp. 820-827, 1998.					
CaR	"MR Imaging and Spectroscopy of the Human Chest Using Polarized ¹²⁹ Xe Gas", Mugler et al., Draft document, Department of Radiology and Biomedical Engineering (University of Virginia Health Sciences Center) & Department of Physics (Princeton University), pp. 1-17, October 2, 1996.					
CaR	"Ultrafast MR-Imaging of Lung Ventilation Using Hyperpolarized Helium-3", Schreiber et al.					
CaR	"Quantification of Regional Intrapulmonary Oxygen Partial Pressure Evolution During Apnea by ³ He MRI", Deninger et al., Journal of Magnetic Resonance 141, pps. 207-216, 1999.					
CaR	"Nuclear Spin-Lattice Relaxation in the presence of Magnetic-Field Gradients", Scheerer et al., Physical Review, Volume 139, No. 5A, pps. 1398-1403, August 30, 1965.					
EXAMINER Freay		DATE CONSIDERED 11/10/01				
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Sheet 3 of 4

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

608.0006USU

Application Number

09/758,006

Applicant

Anselm Deninger et al.

Filing Date

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Car	"Relaxation of Spins Due to Field Inhomogeneities in Gaseous Samples at Low Magnetic Fields and Low Pressure", Cates et al., Physical Review A, Volume 37, No. 8, pp. 2877-2855, 1988.					
Car	"Polarization of ^3He Gas by Optical Pumping", Colegrove et al., Physical Review, Volume 132, No. 6, pp. 2561-2573, 1963.					
Car	"Optical Pumping in ^3He with a Laser", Nacher et al., Journal De Physique 46, No. 12, pp. 2057-2073, 1985.					
Car	"A Dense Polarized ^3He Target Based on Compression of Optically Pumped Gas", Eckert et al., Nuclear Instruments & Methods in physics Research, Section A, pp.53-65, 1992.					
Car	"Accurate Optical Measurement of Nuclear Polarization in Optically Pumped ^3He Gas", Bigelow et al., Journal de Physique 2, pp. 2159-2179, 1992.					
Car	"NMR Calibration of Optical Measurement of Nuclear Polarization in ^3He ", Lorenzon et al., Physical Review A, Vol. 47, No. 1, pp. 468-479, 1993.					
Car	"Very Long Nuclear Relaxation Times of Spins Polarized Helium 3 in Metal Coated Cells", Heil et al., Physic Letters A, pp. 337-343, 1995.					
Car	" ^3He Neutron Spin-Filter", Heil et al., Physica B, pp. 328-335, 1999.					
Car	"Nuclear Relaxation of ^3He in the Presence of O_2 " Saam et al., Physical Review A, Vol. 52, No. 1, pp. 862-865, 1995.					
Car	"Gaseous ^3He - ^3He Magnetic Dipolar Spin Relaxation", Newbury et al., Physical Review A, Vol. 48, No. 6, pp. 4411-4420, 1993.					

EXAMINER

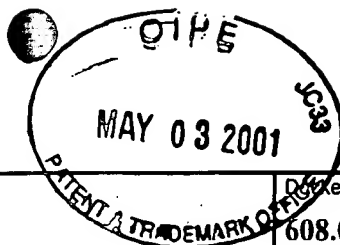
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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)						
car	"Study of Mechanical Compression of Spin-Polarized ^3He Gas", Becker et al., Nuclear Instruments and Methods in Physics Research A, pp. 45-51, 1994					
car	"Spatially Resolved Measurements of Hyperpolarized Gas Properties in the Lung <i>in vivo</i> . Part I: Diffusion Coefficient", Chen et al., Center for <i>In Vivo</i> Microscopy, Duke University Medical Center, pp. 1-8, June 24, 1999.					
car	"Entwicklung und Test eines ^3He -Neutron-Spinfilter", Reinhard Surkau, Dissertation, August 1995.					
car	"High-Volume Production of Laser-Polarized ^{129}Xe ", Driehuys et al., Department of Physics, Princeton University, July 8, 1996.					
car	"RMP Colloquia : Spin-Exchange Optical Pumping of Noble-Gas Nuclei", Walker et al., Reviews of Modern Physics, Vol. 69, No. 2, pp. 629-641, April 1997.					
car	"Polarized Helium-3 Production and Transport System", Hasson et al., Abstract: Magnetic Imaging Technologies, Inc.					
car	"Realization of a Broad Band Neutron Spin Filter with Compressed, Polarized ^3He Gas", Surkau et al., Nuclear Instruments and Methods in Ohysics Research A, pp. 444-450, 1997.					
car	"Highly Polarized ^3He for Lung-MRI", Surkau et al., Abstract: Department of Physics, University of D-55099 Mainz, Germany.					
EXAMINER Frey			DATE CONSIDERED 11/10/01			
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